10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NDUFAF2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13341c

Specification

NDUFAF2 Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q8N183
Other Accession	NP_777549.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**19856**
Antigen Region	**71-99**

NDUFAF2 Antibody (Center) - Additional Information

Gene ID 91942

Other Names
Mimitin, mitochondrial, B172-like, B172L, Myc-induced mitochondrial protein, MMTN, NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 2, NDUFA12-like protein, NDUFAF2, NDUFA12L

Target/Specificity
This NDUFAF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 71-99 amino acids from the Central region of human NDUFAF2.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NDUFAF2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NDUFAF2 Antibody (Center) - Protein Information

Name NDUFAF2

Synonyms NDUFA12L

Function Acts as a molecular chaperone for mitochondrial complex I assembly (PubMed:16200211, PubMed:19384974). Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone (PubMed:16200211, PubMed:27626371). Is involved in the initial steps of cilia formation, including removal of CP110 from the mother centrioles, docking of membrane vesicles to the mother centrioles, and establishment of the transition zone (PubMed:38949024).

Cellular Location
Mitochondrion.

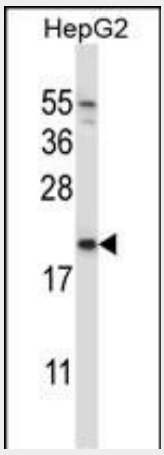
Tissue Location
Highly expressed in ESCC cells. Also expressed in heart, skeletal muscle, liver, and in fibroblasts

NDUFAF2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

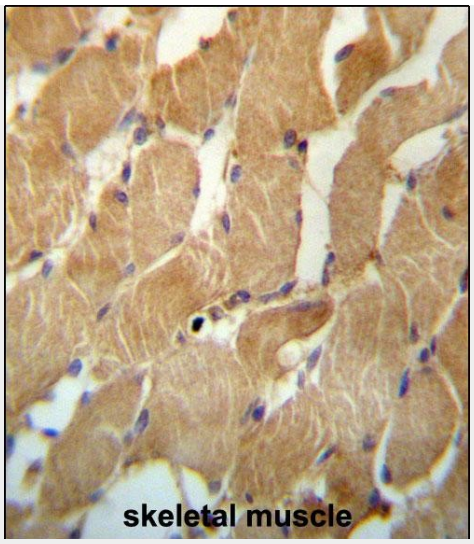
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NDUFAF2 Antibody (Center) - Images



NDUFAF2 Antibody (Center) (Cat. #AP13341c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the NDUFAF2 antibody detected the NDUFAF2 protein (arrow).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



NDUFAF2 Antibody (Center) (Cat. #AP13341c)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NDUFAF2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

NDUFAF2 Antibody (Center) - Background

NADH:ubiquinone oxidoreductase (complex I) catalyzes the transfer of electrons from NADH to ubiquinone (coenzyme Q) in the first step of the mitochondrial respiratory chain, resulting in the translocation of protons across the inner mitochondrial membrane. This gene encodes a complex I assembly factor. Mutations in this gene cause progressive encephalopathy resulting from mitochondrial complex I deficiency.

NDUFAF2 Antibody (Center) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Lesch, K.P., et al. Mol. Psychiatry (2010) In press :
Herzer, M., et al. Neuropediatrics 41(1):30-34(2010)
Hoefs, S.J., et al. Hum. Mutat. 30 (7), E728-E736 (2009) :
Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008)